



CHEM-JOINT MORTAR

Three-Components Flexible Epoxy Mortar for Transition Strips

PRODUCT DESCRIPTION

CHEM-JOINT MORTAR is a synthetic flexible system that hardens at ambient temperature whose basic binding agent is epoxy with special compatible liquid tar and elastomer additives. It is a 3-component system: Resin, hardener and quartz fillers of special granulometry. CHEM-JOINT MORTAR has optimum mechanical properties, resistance to chemical aggression, dielectric properties and outstanding elasticity.

FIELDS OF APPLICATION

CHEM-JOINT MORTAR is used as ancillary filling material for the installation of highway expansion joints in viaducts, bridges and overpasses, the filling of concrete slab ends in airport construction (with a strong and elastic connection) and any other use where large voids need to be filled with a material capable of reversible deformation and whose properties are suitable to resist continued mechanical stress.

PRODUCT FEATURES

- 100% Solids.
- High mechanical properties.
- High elasticity.
- Excellent adhesion to metal, asphalt, and concrete.
- High chemical resistance

PACKAGING

CHEM-JOINT MORTAR is supplied as 66 Lb (30 kg) Unit. This unit consists of the following:

Component 'A' Resin: 6.59 Lb (2.99 kg) Can

Component 'B' Hardener: 4.43 Lb (2.01 kg) Can

Graded Silica Sand: 55.11 Lb (25.0 kg) Pail

TECHNICAL DATA

Technical Data for Mixed Parts

Property	Value	ASTM Method
Color Mixed	Black	N/A
Solid Contents by Weight	100%	N/A
Density of the two-component binder	8.68 Lb/gal (1.04 kg/liter)	D-1475
Density of the Mortar (3 components)	16.36 Lb/Gal (1.96 kg/liter)	D-1475
Pot-life Per 200 grams of mix, @ 77°F (25°C)	90 minutes	-
Gel time of the mortar, 60 g @ 77°F (25°C)	140 minutes	C-882
Working time Per package, @ 77°F (25°C)	35 minutes	-
Binder adhesion strength to Steel	624 psi (4.3 MPa)	D-4541
Binder adhesion strength to Asphalt	Asphalt Failure	D-4541
Binder adhesion to concrete	Concrete failure	D-4541
Hardness	80 A	D-2240

APPLICATION DATA

Surface Preparation: In order to ensure optimal adhesion to substrates and perfect function of the synthetic joint it is fundamental to properly prepare the surfaces to be connected. In particular, concrete surfaces must be free of any un-sticking elements such as surfacing agents, cement efflorescence, grease, etc. The surface must also be treated with the special Chem-Joint primer.

Mixing and application: Mix each component separately. Pour component **A** and component **B** in the Mixing Container. Mix with a slow speed drill. Then pour the mix in the mixer machine where the quartz sand of component **C** shall be added while mixing. The mixing of the three components must be continued until the blend is homogenous.

CHEM-JOINT MORTAR should be laid out when Chem-Joint Primer is still wet. In order to avoid exothermic phenomena during the application of considerable amounts of CHEM-JOINT MORTAR at high ambient temperatures, it is necessary to perform fractional applications, i.e.: in several layers.

The suggested equipment to properly apply the product is the standard equipment used to apply cement mortars. Compacting with a vibrating mixer improves the product's physical and chemical properties.

CLEANING

Xylene can be used to clean CHEM-JOINT MORTAR from tools and equipment.

STORAGE

Store CHEM-JOINT MORTAR under cover out of direct sun light at a temperature between 50°F (10°C) and 77°F (25°C). Store correctly in un-opened container. Storage must be frost-free.

Shelf Life: Product can be stored in dry cool conditions for 12 months period.

SAFETY PRECAUTIONS

KEEP OUT OF THE REACH OF CHILDREN. FOR INDUSTRIAL USE ONLY.

The components of this sealant are combustible. Component 2 contains a toxic ingredient, which is sufficiently diluted after mixing with component 1 to permit use of the final mixture with reasonable precautions. During application, it should be used with adequate ventilation. Avoid prolonged contact to skin. The components and mixture are harmful or fatal if swallowed. In that event do NOT induce vomiting – call a physician immediately.

While handling component 2 during mixing the following is recommended: Organic vapor cartridge, respirator, protective

goggles, rubber apron and gloves. The vapor should not be inhaled. It may cause allergic respiratory irritations and it may cause skin or eye irritation. If material is splashed on skin, wash with large quantities of soap and water. If splashes in eyes – flush with water for 15 minutes and call a physician.

TECHNICAL ASSISTANCE

Please contact International Chem-Crete Corporation for Technical Personnel.

WARRANTY

LIMITED WARRANTY: International Chem-Crete Inc. warrants that, at the time and place we make shipment, our materials will be of good quality and will conform to our

published specifications in force on the date of acceptance of the order.

DISCLAIMER: The information contained herein is included for illustrative purposes only and, to the best of our knowledge, is accurate and reliable. International Chem-Crete Inc. is not under any circumstances liable to connection with the use of information. As International Chem-Crete Inc. has no control over the use to which others may put its products, it is recommended that the products be tested to determine the suitability for specific applications and/or our information is valid in particular circumstances. Responsibility remains with the architect or engineer, contractor and owner of the design, application and proper installation of each product. Specifier and user shall determine the suitability of the product for specific application and assume all responsibility in connection therewith.

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